SLOVENSKI STANDARD
SIST EN 12588:2000

01-november-2000

Svinec in svinļ eve zlitine - Valjana svinļ ena ploļ evina za gradbeniġtvo

Lead and lead alloys - Rolled lead sheet for building purposes

Blei und Bleilegierungen - Gewalzte Bleche aus Blei für das Bauwesen

Plomb et alliages de plomb - Feuilles de plomb laminé pour le bâtiment

Ta slovenski standard je istoveten z: **EN 12588:1999**

ICS:

77.150.60	Svinļ eni, cinkovi in kositrovi izdelki	Lead, zinc and tin products

SIST EN 12588:2000 **en**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12588

May 1999

ICS 77.150.60

English version

Lead and lead alloys - Rolled lead sheet for building purposes

Plomb et alliages de plomb - Feuilles de plomb laminé pour le bâtiment

Blei und Bleilegierungen - Gewalzte Bleche aus Blei für das Bauwesen

This European Standard was approved by CEN on 16 April 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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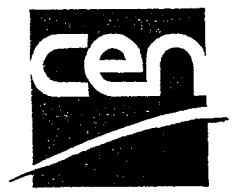


EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN 12588:1999 E

Contents

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 306 "Lead and lead alloys", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest byNovember 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Within its programme of work, Technical Committee CEN/TC 306 requested CEN/TC 306/WG 4 "Lead sheet" to prepare the following standard :

EN 12588, *Lead and lead alloys - Rolled lead sheet for building purposes.*

Introduction

In this European Standard, the performance of the product has been defined as far as possible in terms of a number of type tests.

The performance of a building element made with these products depends not only on the properties of the product as it is required by this standard, but also on the design and quality of the fabrication of the building element and on the design, construction and behaviour of the part of the building concerned in relation to the environment and conditions of use.

The lead sheet supplied should be specified and used according to the National Code of Practice, depending on service conditions such as exposure to direct sunlight and the area of the piece of lead to be fixed.

1 Scope

This European Standard specifies the designation, the requirements for chemical composition, surface condition and dimensional tolerances for rolled lead sheet. Lead sheet covered by this standard is made by the roll deformation process and is intended for roofs, flashings, weatherings, claddings, pre-formed panels, damp-proof courses and similar building work.

No requirements for supporting construction, design of roof or cladding systems and methods of joining are included.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 11014-1, *Safety data sheet for chemical products – Part 1 : Content and order of sections.*

3 Terms and definitions

For the purposes of this European Standard, the following definition applies :

rolled lead sheet
flat product made of lead of rectangular cross-section with uniform thickness and width supplied in coiled or flat form

4 Designation

4.1 Material number

The material is designated by number (see 6.1). This material number designation is in accordance with the system given in Annex A (normative).

4.2 Product

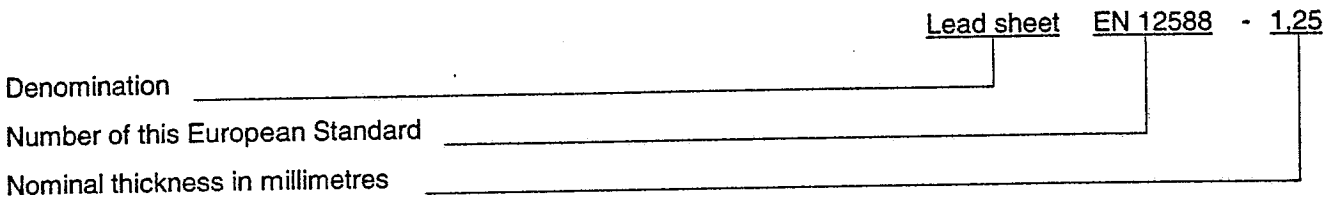
The product designation for products to this standard shall consist of :

- denomination (Lead sheet) ;
- number of this European Standard (EN 12588) ;
- nominal thickness in millimetres.

NOTE The material number is not a part of the product designation because this standard contains only one material.

The derivation of a product designation is shown in the following example.

EXAMPLE



5 Ordering information

In order to facilitate the enquiry, order and confirmation of order procedures between the purchaser and the supplier, the purchaser shall state on his enquiry and/or order the following information :

a) quantity of product required (number of pieces) ;

b) product designation (according to 4.2) ;

c) nominal width in millimetres ;

d) nominal length in metres ;

e) form of delivery (coiled or flat).

In addition, the purchaser shall also state on the enquiry and/or order if any of the following is required :

f) a declaration of conformity (see clause 8) ;

g) special packaging ;

h) any other requirements.

EXAMPLE Ordering details for 10 pieces lead sheet conforming to EN 12588, nominal thickness 2,50 mm, nominal width 1 000 mm, nominal length 2,0 m, delivered in coils, with a declaration of conformity :

10 pieces Lead sheet EN 12588 - 2,50
- nominal width 1 000 mm
- nominal length 2,0 m
- coils
- declaration of conformity

6 Requirements

6.1 Chemical composition

The composition of the material, designated PB810M shall conform to the requirements given in table 1.

Table 1 - Composition

Element	Composition % (m/m)
Copper	0,03 to 0,06
Antimony	max. 0,005
Bismuth	max. 0,100
Silver	max. 0,005
Tin	max. 0,005
Zinc	max. 0,001
Other impurities	max. 0,005
Lead	Remainder

6.2 Dimensions and tolerances

6.2.1 Dimensions

The length, width and thickness shall be agreed between the purchaser and the supplier, within the following limits :

- thickness : up to and including 6 mm ;
- width : from 100 mm up to and including 2 500 mm ;
- length : up to and including 12 m in the coiled form.

6.2.2 Tolerances

6.2.2.1 Thickness

The maximum deviation from the ordered nominal thickness, when measured in accordance with 7.1.2, shall not exceed ± 5 %.

6.2.2.2 Width

The maximum deviation from the ordered nominal width shall not exceed ± 5 mm.

6.2.2.3 Length

The maximum deviation from the ordered nominal length shall not exceed $^{+50}_{0}$ mm.

6.3 Surface condition

The surface of the lead sheet shall be smooth, free from holes, cracks, dross inclusions and laminations.

NOTE Lead sheet sourced from different suppliers can present a different surface appearance.